

Title (en)

HIGH DENSITY NONWOVEN FILTER MEDIA

Title (de)

HOCHDICHTE FASERVLIESFILTERMEDIEN

Title (fr)

MILIEUX FILTRANTS NON TISSES A MASSE VOLUMIQUE ELEVEE

Publication

**EP 0789612 B1 20020904 (EN)**

Application

**EP 95938730 A 19951004**

Priority

- US 9513090 W 19951004
- US 33229294 A 19941031
- US 42553995 A 19950420

Abstract (en)

[origin: US5855784A] The invention provides a sheet filter medium having autogenously bonded uncrimped conjugate fibers which contain a polyolefin and another thermoplastic polymer that have different melting points. The filter medium has a density between about 0.07 g/cm<sup>3</sup> and about 0.2 g/cm<sup>3</sup>. The invention additionally provides a three-dimensionally thermoformed filter medium that has a density between about 0.07 g/cm<sup>3</sup> and about 0.5 g/cm<sup>3</sup>.

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IPC 8 full level

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**Y10T 442/66** (2015.04 - EP US); **Y10T 442/681** (2015.04 - EP US); **Y10T 442/69** (2015.04 - EP US); **Y10T 442/692** (2015.04 - EP US)

Cited by

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**US 5855784 A 19990105**; AU 3999795 A 19960523; AU 697204 B2 19981001; BR 9509132 A 19970902; CN 1067910 C 20010704;  
CN 1171060 A 19980121; DE 69528076 D1 20021010; DE 69528076 T2 20030430; EP 0789612 A1 19970820; EP 0789612 B1 20020904;  
ES 2181800 T3 20030301; KR 100468551 B1 20050316; KR 970706883 A 19971201; MX 9702931 A 19970731; PL 319975 A1 19970901;  
US 6090731 A 20000718; WO 9613319 A1 19960509

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US 12935398 A 19980805; US 9513090 W 19951004